

## 105.12 - Respirable Materials

SRMs 1878a and 1879a are crystalline silica materials with particles in the respirable range. They are intended for use in determining, by x-ray diffraction, the levels of respirable silica in an industrial atmosphere according to National Institute for Occupational Safety and Health ([NIOSH](#)) Analytical Method 7500 or equivalent methods. **NOTE:** These SRMs are not certified for particle size.

Also see [Table 105.10 Respirable Materials on Filter Media](#).

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

			Measurand(s)
SRM	Description	Unit of Issue	
1648a	Urban Particulate Matter	2 g	Certified: 24 elements Reference values: 8 elements
1649b	Urban Dust	2 g	Certified: 23 PAHs, 13 PCBs, 4 pesticides Reference values: 38 PAHs, 16 nitro-PAHs, 49 PCBs, 34 pesticides
1650b	Diesel Particulate Matter	200 mg	Certified: 30 PAHs, 6 nitro-PAHs Reference values: 45 PAHs, 16 nitro-PAHs
1866b	Common Commercial Asbestos	set (3)	chrysotile, amosite, crocidolite
1877	Beryllium Oxide Powder	20 g	35.76 % beryllium
1878a	Respirable Alpha Quartz	5 g	93.7 % alpha quartz
1879a	Respirable Cristobalite	5 g	88.2 % cristobalite
1975	Diesel Particulate Extract	4x1.2 mL	Certified: 8 PAHs, 4 nitro-PAHs Reference values: 23 PAHs, 15 nitro-PAHs, mutagenicity, residue mass
2583	Trace Elements in Indoor Dust	8 g	Certified: 5 elements
2584	Trace Elements in Indoor Dust	8 g	Certified: 5 elements Reference values: 10 elements
2585	Organic Contaminants in House Dust	10 g	Certified: 33 PAHs, 30 PCBs, 4 pesticides, 15 PBDEs Reference values: 33 PAHs, 12 PCBs, 10 pesticides, 3 PBDEs
2786	Fine Particulate Matter (4< μm)	1 bottle	Certified: 25 PAHs, 3 nitro-PAHs, 2 PBDE, 6 elements Reference values: 26 PAHs, 4 nitro-PAHs, 12 elements, 3 sugars, 5 PBDE, 12 dioxins, 15 furans
2787	Fine Particulate Matter (	1 bottle	Certified: 23 PAHs, 3 nitro-PAHs, 2 PBDE, 5 elements Reference Values: 27 PAHs, 3-nitro-PAHs, 5 PBDE, 13 elements, 3 sugars, 12 dioxins, 15 furans
2975	Diesel Particulate Matter	1 g	Certified: 11 PAHs Reference values: 28 PAHs, 17 nitro-PAHs, particle-size, total extractable mass

Certified values are normal font.

Reference values are italicized.

Values in parentheses are for information only.